GRADING DIAGRAM AND SUMMARY

<i>⊢/30 ⊢ Fi</i> //	Denotes fill quantity from computer listings and/or manual cross-sections.	⟨F⟩	Denotes C. Y. fill for private entrances.					
<i>⊢/30 ⊢ Cut</i>	Denotes cut quantity from computer listings and/or manual cross-sections. Quantity adjusted for demolition of		Denotes C.Y. unsuitable material above subgrade whis included in Regular Excavation.					
	pavement. Denotes C.Y. root mat material in cut areas which is included in Regular Excavation quantities.		Denotes C.Y. of excavation of unsuitable mat'l. below subgrade and backfilled with (specify material)					
	Denotes C.Y. root mat material removed from fill sections and backfilled with (specify material) (Backfilled with (specify material) (Backfill with Regular Excavation and/or Borrow Excavation)	<>	Denotes C.Y. Regular Excavation from drainage ditches.					
C	Denotes C.Y. Regular Excavation from private entrances.	[———] [———]	Denotes C.Y. Minor Structure Excavation.					

FORMULAS

Roadway Cut (C) = Unadjusted Cut from Computer Listings or Manual Cross-Sections minus (-) Demolition of Pavement.

Roadway Fill(J) = Fill Required plus (+) Material for Backfill of Demolition of Pavement Areas in Fill(for heights of fill < 3 feet below subgrade)

Total Reg. Excav. (M) = C + E + F + H +K

Total Fill (N) = J + E + G + H + L + R

Borrow (S) = [N - ([C + F + K + P + Q - D - 1] x Compaction Factor)] - Compaction Factor for Borrow Site

(Embankment)(S) = N - (C + F +K + P +Q - D - I) (Embankment = Total Fill - Usable Cut) Estimated Material to be obtained off-site.

NOTES: INCIDENTAL TO PAYMENT FOR EXCAVATION, UNSUITABLE MATERIALS ARE TO BE REMOVED, AND REPLACED WITH SELECT MATERIAL, TYPE I, MINIMUM CBR 30. IN LIEU OF REMOVAL AND REPLACEMENT, THE UPPER 12" OF WET SUBGRADE MAY BE TREATED WITH PELLETIZED QUICKLIME. SOILS WITH NATURAL MOISTURE CONTENTS GREATER THAN 30% OVER OMC SHOULD BE REMOVED AND REPLACED OR CHEMICALLY STABILIZED.UNSUITABLE MATERIALS ANTICIPATED AT THE LOCATIONS LISTED BELOW: STA.92+00 TO STA.94+00 STA. 98+00 TO STA. 100+00

				$\otimes 9$	9	Uncu	itable	(10)	20			(2)	02	5	2	
Location	⊗ Roadway Cut	Root Mat in Cut Sections	in Fill	itches)itches	Mate Below	erial Above Subgrade	Roadway Fill	Entrances	Total Regular Excavation	Total Fill	Demolition of Pavement (15 ~	Stormwater(idgemeni 8dsins	6 Borrow
	(1) (8)			Cut -	///	Ü	J	8	Cut Fill	(6)		De	Mino	Cut	Fi//	(Embank- ment)
	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	C. Y. C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	C. Y.	<i>C. Y.</i>	C. Y.
SYCOLIN ROAD STA.92+86 TO STA.109+00		811	169	0	0	150	/350	453	23 23	5967	645	0	0	2400	0	0
SYCOLIN ROAD ST A. 109+00 TO ST A. 116+40										3694						
FORMULAS	С	D	E	F	G	Н	/	J	KL	М	\wedge	0	P	Q	R	S
	3	4	3 7	3	7	3 7	4	7	3 7					400	7	
TOTALS	9469	8//	169	0	0	150	1350	453	23 23	9661	645	0	0		0	0

Denotes C.Y. existing pavement to be removed as "Demolition of Pavement" from fill sections and backfilled with (specify mat'l.)

Denotes C.Y. existing pavement to be removed as Demolition of Pavement in cut sections within construction

Denotes C.Y. fill for S.W.M.(Stormwater Management Basin)

limits and is not included in the Regular Excavation

__ Denotes C.Y. Haul.(Haul Material shown will be C.Y. of mat'l. not compacted.)

Denotes Borrow Material (Min. CBR, specify)

Denotes C.Y. fill for drainage ditches.

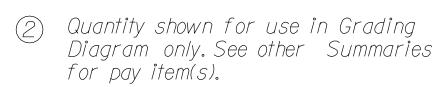
Denotes Surplus Material.

The borrow quantity shown was computed on the basis of the average shrinkage or swell factor for the general vicinity of the project. The contractor will be responsible for determining the actual factor for the site(s) from which he proposes to secure borrow material needed to complete this project.

The embankment quantity shown has not been adjusted for shrinkage or swell factors. The contractor will be responsible for determining the effect of the shrinkage or swell factor of the embankment material, and no adjustment will be made in pay quantities for this factor. The contractor shall determine the actual quantity of embankment material needed to complete this project.

\bigotimes	Denotes items to be paid for on
	a basis of plan quantities in
	accordance with current VDOT Roc
	and Bridge Specifications.

 Cut quantity shown does not include the material removed as Demolition of Pavement.



Denotes C.Y. cut from S.W.M.(Stormwater Management Basin) (3) Included in Total Regular Excavation.

4) Included in Roadway Cut quantity.

(5) Quantities for Temporary Sediment Basins and Temporary Sediment Traps are included with the Stormwater Management Basin auantities.

6) Denotes pay item.

(7) Included in total fill quantity.

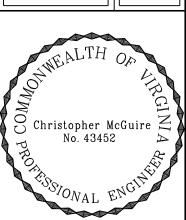
(8) This quantity comes from the computer listings and/or manual cross-sections and may be adjusted for other quantities.

9) Volumes obtained for Cut Ditches and Fill Ditches not included in computer listings.

(10) Includes settlement of in-place soil.

* REVISIONS * COUNTY L CONSTRUCTION JDOUN (CAPITAL LOUI OF (OFFICE

WIDENING 643) SYCOLIN ROAD (ROUTE 6



SHEET NO. 2B1